

EROSION CONTROL TECHNICAL DISCUSSION

The following discussion describes the measures taken to minimize erosion at USACE sites. At the Agriculture Street Landfill Superfund Site, all excavation activities will be planned and conducted to minimize the duration of exposure of unprotected areas susceptible to erosion. Clearing of excavation areas will progress in reasonably sized increments as directed by USACE.

Temporary Protection of Disturbed Areas

Temporary erosion control measures will be installed around the perimeter of each excavation area and, where necessary, on down slope areas between work zones and drainage ways. When required, erosion control will be accomplished by the installation of silt fencing, hay/straw bale check dams within drainage ditches and, if necessary, by constructing sedimentation ponds between the disturbed area and silt fencing. All erosion controls will be maintained in place until the excavation has been backfilled and the landscape has been restored. Erosion control measures will be inspected regularly by USACE and the Contractor's Site Superintendent and any repairs needed will be accomplished prior to continuing work in that area. An example erosion control inspection report is attached.

Erosion and Sedimentation Control Devices

On properties where erosion and sediment control devices are necessary, silt fencing will be installed prior to ground disturbance around the perimeter of the excavations and at the base of all steep slopes. The silt fence will correspond to the limits of the ground disturbance. Silt fence will also be installed around the perimeter of any borrow areas, at down slope locations at the limits of the ground disturbance. Hay/straw bale erosion checks will be placed where necessary to mitigate and prevent erosion of soil resulting from storm events. Placement of hay/straw bales will correspond to areas of observed erosion.

If stockpiling of excavated soil is required, the stockpile will be covered with 4-mil polyethylene or equivalent.

Maintenance of erosion control structures will be an ongoing activity. Weekly inspections and inspections after storm events will be conducted by USACE and the Contractor's Site Superintendent. To maintain their effectiveness, silt fences will be cleaned as needed by a laborer using a shovel or other hand tools. Broken stakes and torn sections will be promptly replaced. Hay/straw bales will be replaced when they fall apart and will be re-staked when loose. If erosion gullies or channels form around silt fencing or hay/straw bale dams, they will be temporarily filled with rock or an approved substitute. The control feature will be extended or repaired to intercept the gully. Any accumulation of sediment against silt fences, hay/straw bale dams, or in sedimentation basins that would reduce the effectiveness of the erosion control structure will be removed.

Location of Contractor Facilities

The location of Contractor field offices, stockpiles, storage, and temporary buildings will be indicated on drawings to be supplied prior to initiation of work. Temporary movement or relocation of these facilities will only be made upon approval by USACE.

Temporary Excavations and Embankments

A drawing indicating locations of any proposed temporary excavations or embankments for haul roads, stream crossings, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials will be provided prior to initiation of work.